

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/006157

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/60 C12N9/88 C12N1/21 C12P13/06 C12P13/08
 C12Q1/68
 //(C12N1/21,C12R1:00)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C12P C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, EMBL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 108 790 A (KYOWA HAKKO KOGYO KK) 20 June 2001 (2001-06-20) page 220; table 1 claims 1,29 sequences 3458,6958	1-4
X	EP 0 356 739 A (AJINOMOTO KK) 7 March 1990 (1990-03-07) abstract page 2, line 36 - line 40 page 3, line 31 - line 39 ----- -/-	1-9

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the International search

15 September 2004

Date of mailing of the International search report

24/09/2004

Name and mailing address of the ISA

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Huse, I

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006157

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 436 886 A (KERNFORSCHUNGSANLAGE JUELICH) 17 July 1991 (1991-07-17) abstract page 2, line 36 - line 40 page 2, line 48 - line 53 claim 1 claim 5	1-9
X	US 2002/037562 A1 (BELARYEVA ALLA VALENTINOVNA ET AL) 28 March 2002 (2002-03-28) abstract page 2, paragraph 24	5-9
A	WO 02/31158 A (ARCHER DANIELS MIDLAND CO) 18 April 2002 (2002-04-18) the whole document	1-9

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2004/006157

Box No. 1 Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☒ In written format
 - ☒ In computer readable form
 - c. time of filing/furnishing
 - ☒ contained in the international application as filed
 - ☒ filed together with the international application in computer readable form
 - ☐ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006157

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1108790	A	20-06-2001	EP 1108790 A2	20-06-2001
			JP 2002191370 A	09-07-2002
			US 2002197605 A1	26-12-2002
EP 0356739	A	07-03-1990	JP 2042988 A	13-02-1990
			JP 2748418 B2	06-05-1998
			DE 68925083 D1	25-01-1996
			DE 68925083 T2	05-09-1996
			EP 0356739 A1	07-03-1990
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			DE 59005821 D1	30-06-1994
			EP 0436886 A1	17-07-1991
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			CN 1310233 A	29-08-2001
			FR 2804971 A1	17-08-2001
			JP 2001231584 A	28-08-2001
WO 0231158	A	18-04-2002	AU 1314602 A	22-04-2002
			BR 0114532 A	30-12-2003
			CA 2425754 A1	18-04-2002
			EP 1325135 A2	09-07-2003
			WO 0231158 A2	18-04-2002
			US 2002177202 A1	28-11-2002

SEQUENCE LISTING

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